

PERMIT APPLICATION: NRS#04.131

APPLICANT: Metro Water Services
1607 County Hospital Road
Nashville, TN 37218
(615) 880-2420

LOCATION: unnamed tributary to Long Creek
Davidson County

WATERSHED DESCRIPTION: This project is located between 3117 and 3113 Milliken Drive in Joelton, TN. The impacted portion of the unnamed tributary is approximately 8 to 10 feet wide from top of bank to top of bank and lacks natural stream meanders. The stream in this section has a low gradient with almost stagnant flow. The channel and banks are partially vegetated with common cattail (*Typha latifolia*), soft rush (*Juncus effuses*), sweetgum (*Liquidambar styraciflua*) black willow (*Salix nigra*), and cottonwood (*Populus deltoides*).

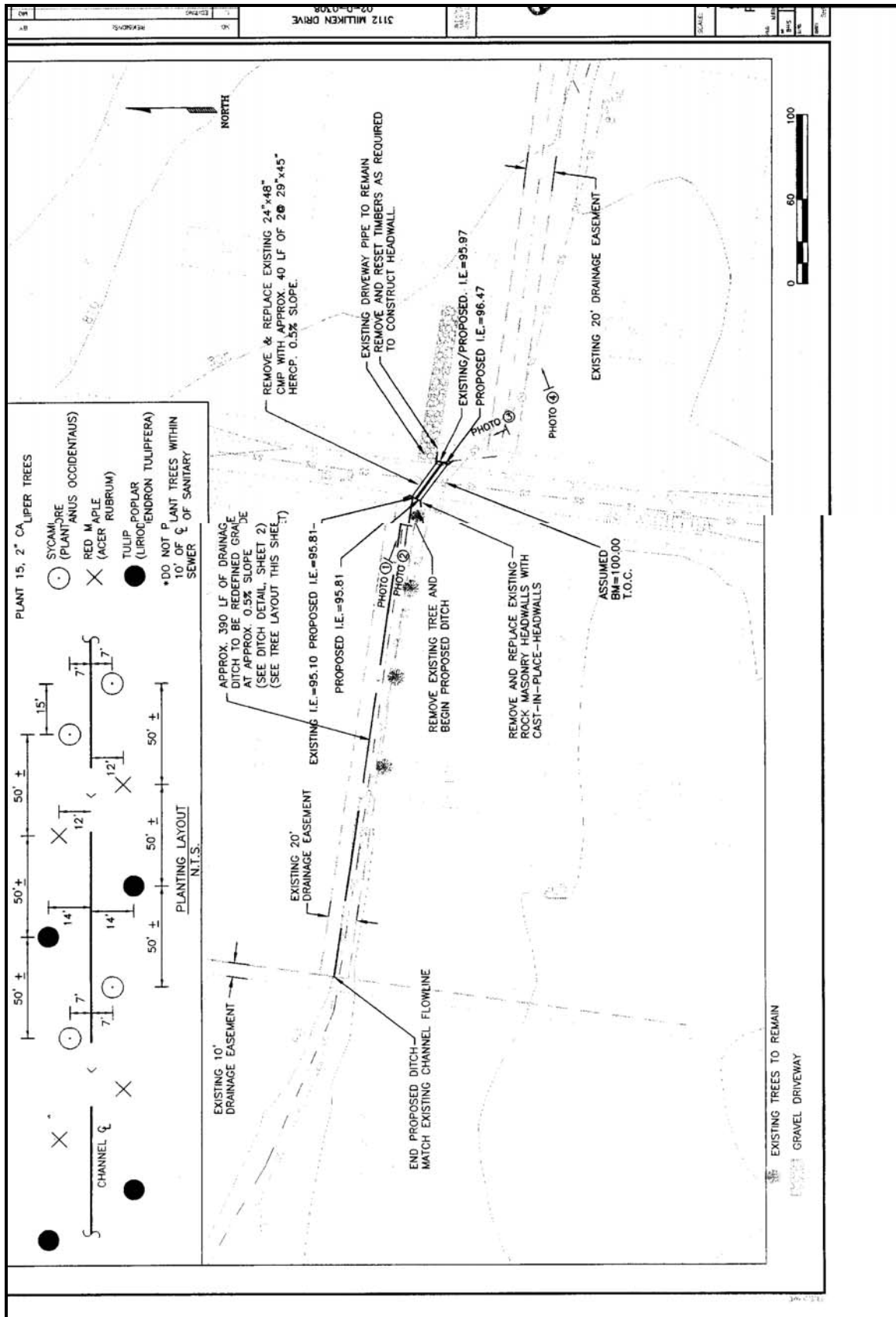
PROJECT DESCRIPTION: The applicant proposes to replace an existing 24-inch by 48-inch CMP with two 29-inch by 45-inch HERCP on an unnamed tributary to Long Creek. The applicant also proposes to redefine approximately 390 linear feet of this channel to facilitate proper drainage. The redefinition incorporates a low-flow channel lined with rounded river cobble and gravel obtained from a permitted source. Additionally, upper portions of the channel will be lined with erosion control matting. Approximately 15 2-inch caliper trees (sycamore, red maple, and tulip poplar) will be planted along the outside of the channel banks in the buffer zone.

PERMIT COORDINATOR: Kelly Morrison

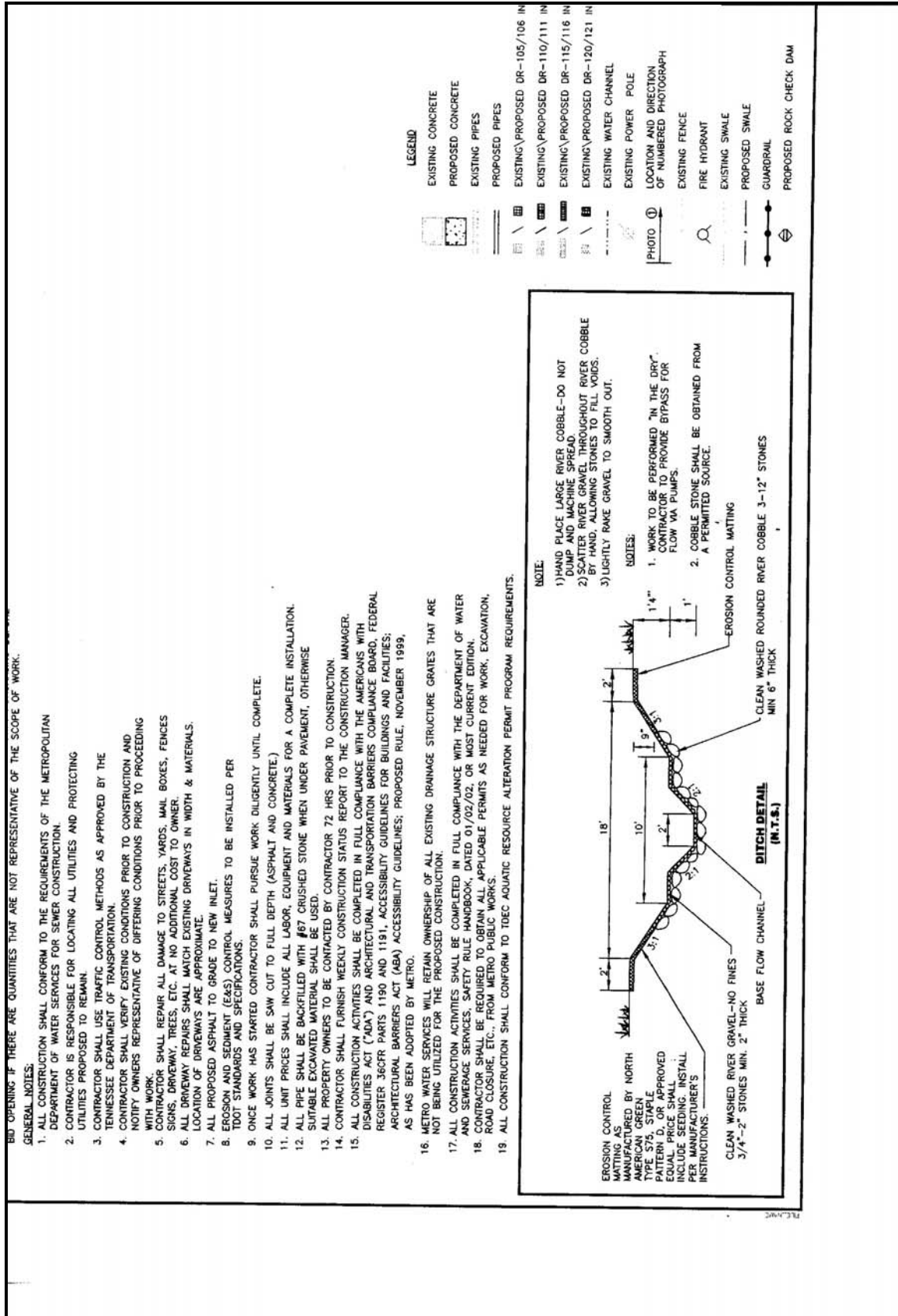
USGS TOPOGRAPHIC QUADRANGLE: Whites Creek (307-SE)



Topographic Map



Plan View



Cross-section of the channel design